

533 225



PCT

(10) International Publication Number
WO 2004/048686 A1

(51) **International Patent Classification⁷:** D21G 1/00, (74) **Agent:** LEITZINGER OY; Tammasaarenkatu 1, FIN-00180 Helsinki (FI).

(21) **International Application Number:** PCT/FI2003/000868 (81) **Designated States (*national*):** AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LX, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT (utility model), PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) **International Filing Date:** 14 November 2003 (14.11.2003)

(25) **Filing Language:** Finnish

(26) **Publication Language:** English

(30) **Priority Data:** 20025052 27 November 2002 (27.11.2002) FI

(71) **Applicant (*for all designated States except US*):** METSO PAPER, INC. [FI/FI]; Fabianinkatu 9 A, FIN-00130 Helsinki (FI).

(72) **Inventors; and**

(75) **Inventors/Applicants (*for US only*):** LARES, Matti [FI/FI]; Palkkatilankatu 5 B 20, FIN-00240 Helsinki (FI). TODOROVIC, Aleksandar [FI/FI]; Retkeilijänkuja 10 A 25, FIN-00980 Helsinki (FI).

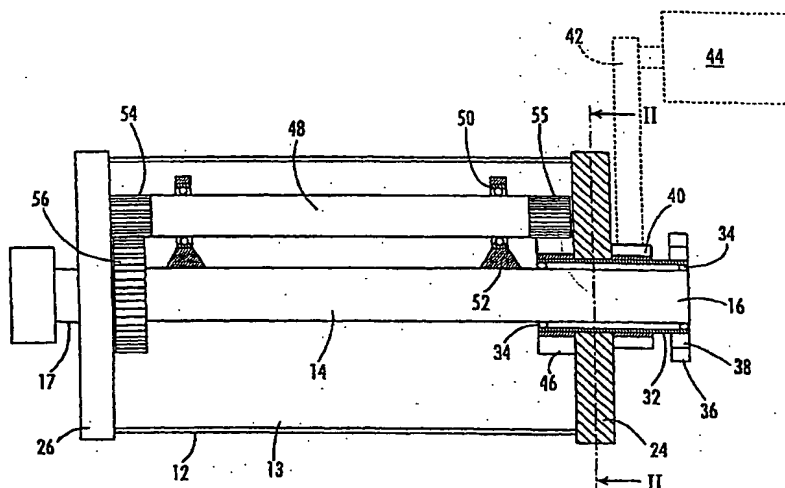
(84) **Designated States (*regional*):** ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

Published:
— *with international search report*

[Continued on next page]

(54) Title: BOARD PRODUCT AND METHOD FOR MAKING THE SAME



(S7) Abstract: A coated board product, which has one or more fiber plies and whose outside plies consist of bleached chemical pulp and middle plies of pulp and/or broke, and whose production involves prior to coating the use of one or more surface conditioning devices functioning as a precalender and comprising: a fixed support element, a flexible jacket fitted around the fixed support element, such that a board web travels between the jacket and a counterroll, a load element provided in connection with the support element, such that the flexible jacket is applied by the load element against the heatable counter-roll, whereby the board web present between the jacket and the counter-roll is calendered, and the coated product has surface properties on the top side of the board as follows: PPS-s10 roughness (ISO 8791-4) 0,5-2,0 pm, Hunter gloss (ISO/DIS8254) 40-80%, and density (SCAN-P7:75) within the range of 500 15 1000 kg/m³.

WO 2004/048686 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.